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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,863	09/29/2003	Ju-hwan Kim	1572.1100	5397
21171	7590	11/23/2005	EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			STERLING, AMY JO	
			ART UNIT	PAPER NUMBER
			3632	

DATE MAILED: 11/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/671,863	<b>Applicant(s)</b> KIM ET AL.	
	<b>Examiner</b> Amy J. Sterling	<b>Art Unit</b> 3632	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 09 November 2005.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-4, 8, 11, 14, 17, 30, 32, 38 and 39 is/are rejected.  
7) ☒ Claim(s) 5-7, 9, 10, 12, 13, 15, 16, 18-29, 31, 33-37 is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

This is the second non-final Office Action for application number 10/671,863 Display Apparatus, filed on 9/29/03. Claims 1-39 are pending. This is the second non-final Action is in response to applicant's reply dated 11/9/05. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

### ***Response to Amendment***

The reply filed on 11/9/05 is not fully responsive to the prior Office Action because of the following omission(s) or matter(s):

Claim 39 is listed as amended, and does not appear to be amended. The status identifier should be changed to (previously presented). Also, the text that states to "Please AMEND claims...39" should be deleted.

The intended amendment can be submitted in a subsequent action.

Since the above-mentioned reply appears to be *bona fide*, and in an effort to speed prosecution. Claim 39 was examined as it appears.

### ***Claim Objections***

Claim 33 is objected to because of the following informalities:

Claim 33 recites, "the spring supporting block...perform a sliding motion" and it should be changed to "the spring supporting block...performs a sliding motion" for the subject to agree with the verb.

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

Claims 1-4, 30, 32 and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by United States Patent Publication No. 2004/0011932 to Duff.

Note: The rejection is based on the embodiment shown in Figure 12, however the figure does not fully describe the embodiment with reference numerals because some of the features have been discussed in conjunction with other embodiments and some of the elements are identical. Some of the reference numerals from other embodiments have been used to describe these elements in the rejection below, but it is noted that the rejection is based on the embodiment as shown in Figure 12 and the reference numerals are used for clarity.

The publication to Duff discloses a display apparatus having a base part (20) and a stand supporting part installed on the base part (414), a monitor body (not shown, for discussion see page 1, paragraph 0001), a body bracket (99), fixedly coupled to the monitor body (via fastening holes 111), a stand part (22, 30/500, 520) to stand on the base part having a pair of sliders (30/500, 510, 511) connected with the body bracket (99) and a connecting assembly (112, 34) to connect the stand part to the body bracket (99) and a supporting bracket (35) to support the connecting assembly (112, 34), a guide rail (22, 522, 524) having a parallel pair (522, 524) to each other to stand on base part at a predetermined distance from each other, and to guide the slider (30/500), the slider which corresponds to and is engaged with the guide rail, the slider which is drawn out from the guide rail to a predetermined length by an upward movement along the guide rail thereon, the slider to move the monitor body up and down. Duff teaches at

least one spiral spring (540) having an elasticity enough to support weight of the monitor body and to extend and contract in response to the movement of the slider. Duff also teaches a guide bracket (528) coupled to the guide rails and a spring supporting block (526) provided between the sliders and wherein the spring has a first end wound part coupled to the guide bracket and a second coupling part end extended from the wound part and coupled to the spring supporting block.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8, 11, 14, 17 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. United States Patent Publication No. 2004/0011932 to Duff as applied to claims 1-4 and in view of United States Publication No. 2002/0145088 to Santoro et al.

Duff teaches the basic inventive concept as shown above with the exception that it does not teach wherein a ball bearing unit is provided between the guide rail and the slider.

Santoro et al. teaches a vertically translating device with a guide rail (54, 56) and a slider (55) which has a ball bearing unit (59) disposed between the two elements so that the elements slide together with less friction, providing less wear on the elements.

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Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention from the teachings of Santoro et al. to have installed a ball bearing unit between two elements that slide in order to have less friction and subsequently less wear on the desired items.

### ***Response to Arguments***

The applicant has argued that the reference to Su et al. is not prior art. This argument is persuasive and therefore Finality has been withdrawn. The applicant has also argued that "main body" and "monitor body" are synonymous. This is persuasive and the term "monitor" has been allowed to be added to the claims. The other arguments are moot in view of a new grounds of rejection.

### ***Allowable Subject Matter***

Claims 5-7, 9, 10, 12, 13, 15, 16, 18-29, 31 and 33-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

With regards to claims 5-7, 20-29, 31 and 35-37 the reason is that the prior art does not teach wherein there are two spiral springs, one in front of the guide bracket and one in the back of the guide bracket.

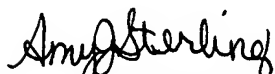
With regards to claims 33 and 34, the prior art does not teach wherein the spring supporting block is coupled to the slider and performs a sliding motion along with a movement of the sliders.

With regards to claims 9, 10, 12, 13, 15, 16, 18 and 19 the prior art does not teach wherein the ball bearing unit has a supporting pin disposed between the guide rail and the slider and positioned along a lengthwise direction of the guide rail and a rolling ball rollably installed on the supporting pin and contacted with the slider by a rolling motion.

### ***Conclusion***

The prior art not relied upon is considered pertinent to the applicant's disclosure 4601246 to Damico teaches sliding members with spiral spring and bearings

Any inquiry concerning this communication should be directed to Amy J. Sterling at telephone number 571-272-6823. The examiner can normally be reached (M-F 8 a.m.-5:00 p.m.). If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Leslie Braun can be reached at 571-272-6815. The fax machine number for the Technology center is 571-273-8300 (formal amendments) or 571-273-6823 (Informal communications). Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist at 571-272-3600

  
Amy J. Sterling  
11/19/05